

# IN SITU TUMOR TEMPERATURE PROFILE MEASURING PROBE AND METHOD

## ABSTRACT OF THE DISCLOSURE

5

10

15

An in situ breast tumor temperature profile measuring probe (12) includes a rod (20), thermal sensors (22) and electrical output leads (24). The thermal sensors (22) are formed in spaced apart holes (30) in an outer insulating layer (26) of the rod (20) and a common electrical input lead (28) to provide an electrical input signal to the thermal sensors (22) is disposed below and has portions (28a) exposed at the holes (30) and electrically connected to the thermal sensors (22). The thermal sensors (22) receive the electrical input signal from the common electrical input lead (28), sense the temperature of biological matter adjacent to the thermal sensors (22) and produce an electrical output signal correlated thereto. Each electrical output lead (24) mounted to the outer insulating layer (26) is in electrical contact with a different one of the thermal sensors (22) to receive the electrical output signal from the one thermal sensor (22) and output the same.